

(12) International Application Status Report

Received at International Bureau: 24 February 2017 (24.02.2017)

Information valid as of: 29 June 2017 (29.06.2017)

Report generated on: 16 February 2019 (16.02.2019)

(10) Publication number:

WO2017/151315

(43) Publication date:

08 September 2017 (08.09.2017)

(26) Publication language:

English (EN)

(21) Application Number:

PCT/US2017/017890

(22) Filing Date:

15 February 2017 (15.02.2017)

(25) Filing language:

English (EN)

(31) Priority number(s):

15/055,635 (US)

(31) Priority date(s):

29 February 2016 (29.02.2016)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

H01L 31/054 (2014.01); *H01L 31/042* (2014.01)

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(54) Title (EN): SOLAR PANEL WITH OPTICAL LIGHT ENHANCEMENT DEVICE

(54) Title (FR): PANNEAU SOLAIRE AVEC DISPOSITIF D'AMPLIFICATION DE LUMIÈRE OPTIQUE

(57) Abstract:

(EN): A double layered superimposed and parallel solar panels having an optical system comprising cylindrical rods and convex lenses at either end of said rods. Said optical rods are centrally longitudinally and transversely inserted in the upper panel through slits where sunlight rays pass and diffract through said rods and widely diffuse over the entire surface of the lower solar panel. A plurality of optical rods may be used thereby increasing the light transmission to the lower solar panel. The present invention significantly reduces the surface needed to install conventional residential as well as commercial solar panels.

(FR): La présente invention concerne des panneaux solaires à double couche superposés et parallèles comportant un système optique comprenant des tiges cylindriques et des lentilles convexes à chaque extrémités desdites tiges. Lesdites tiges optiques sont insérées de façon centrale longitudinalement et transversalement dans le panneau supérieur à travers des fentes à travers lesquelles les rayons de lumière solaire passent et sont diffractés à travers lesdites tiges et sont largement diffusés sur la surface entière du panneau solaire inférieur. Une pluralité de tiges optiques peuvent être utilisées de façon à augmenter la transmission de lumière vers le panneau solaire inférieur. La présente invention réduit significativement la surface nécessaire pour installer des panneaux solaires conventionnels, résidentiels ainsi que commerciaux.

International search report:

Received at International Bureau: 17 April 2017 (17.04.2017) [EP]

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE,

PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

European Patent Office (EPO) : AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM